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Approved For Release 2004/03/26 : CIA-RDF78B05703A000200030015-5

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WIMORANDUM FOR: Director, National Photographic Interpretation Center

MEDJECT : Request for Approval of Change-in-Scope to Contract

FY-1771 RED Funds

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1. This memorandum requests approval for the commitment of R&D funds for a change-in-scope to Contract

The specific request is stated in Paragraph 7.

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to fabricate a Target Indexing Device (TID). This effort to fabricate a Target Indexing Device (TID). This effort totals The TID will provide MPIC with the capability to rapidly and automatically scan film and specify whether targets are cloud covered or cloud free. Furthermore, when operating in the general analysis mode, the device will permit an accurate frame-by-

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3. The Cobrication of the TID was made possible by previous MPIC research efforts in developing optical diffraction pattern technology. The diffraction patterns of images of clouds are very distinct from the diffraction patterns of non-clouded land areas, and it is upon these differences that the TID operates to distinguish clouded targets from clear targets.

frame determination of the percent of cloud cover of an area.

During the development of the TID, an interesting phenomena was noted: using diffraction patterns, we were also able to distinguish among various types of land-use areas which were not cloud covered; e.g., deserts, mountains, plowed fields, cropland, cities, etc. This indicates that this technology might be further developed to automatically classify land-use very rapidly and on a very wide scale. There is an analogous "classification" function which is an integral part of area search for new targets or new activity in an area. This type of classification entails detection of changed land-use indicative of new activity; e.g., earth scars, excavations, rail line extensions, new access roads, new clearings (for helicopter pads), etc. These types of activity indicators are often the very first evidence of new salssile sites, military construction, electronic installations, etc.

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25X1 25X1	SUBJECT: Request for approval of Change-in-Scope to Contract No. with the mounting to from FY-1971 REC Funds	25X 25X
	b. Development of such an area-change detector would probably require a complex and expensive effort spanning several years. While this would be a high risk program, successful development of such a device would greatly aid the PI responsible for searching large areas by "pimpointing" for him those areas undergoing change. Ultimately, it confidence were established in the machine's accuracy and completeness, it could automatically search large areas for new activity.	
	Currently available duta, however, while promising, is insufficient to support a decision to embark upon such a large development program. It is therefore desirable to obtain additional preliminary data regarding the feasibility of developing a machine that would rapidly and accurately direct the PI to areas of new man-made activity. It is proposed that the TID be utilized at the contractor's plant for a period of one month to collect such additional data. This would result in a delay in delivery of the TID from the currently scheduled date of 18 September 1970 to 23 October. It would also require addi-	
25X1	tional funding of for a change-in-scope to the current contract. Delay in delivery of the TID will not affect its preparation for opera-	
25X1	biomal tests on the first imagery, while employment of the device on this new problem would serve as a beneficial "shakedown" exercise before final delivery in October.	
	5. 43 the primary contractor on the TID, is the only contractor that can perform the above investigation prior to delivery of the device to NYIC.	25X
	6. The security classification will be the same as that of the original contract. The association is SECRET, the title is UNCLASSIFIED, and the work is SECRET.	
25X1	7. It is requested that approval be granted for a change-in- scope to contract in an amount not to exceed and to be charged against Category IV FY-1971 RED funds.	25X
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- - -	SUBJECT: Request for approval of Change-in-Scope to Contract No.	25X1
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	Attachments: 1. Form 2420 1. Proposal	
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	APPROVED: 1 7 SEP 1970	
	ACTION C. LONDAND. Date Director Hational Photographic Interpretation Center	
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